



Schneider

1330 Win Hentschel Boulevard, Suite 100 West Lafayette, IN 47906-4156 Phone: 765.448.6661 Fax: 765.448.6665

The Schneider Corporation

AUTHORIZATION FOR SUPPLEMENTAL SERVICES

Project No.: 5954.003
Project Name: Cumberland Avenue Reconstruction Ph I & Ph II
Application No. #005

Name: Dave Buck
Company: City of West Lafayette
Address: 609 West Navajo, West Lafayette, IN 47906
Date: December 10, 2010
Fax: (765) 775-5249
From: Shawn H Strange, P.E.

We have been requested to provide the following services for the above referenced project. The services listed below are not included in our basic scope of services, and are not included in our base fee. These services will be billed as "Supplemental Services" as per this proposal. We will proceed with the work upon receipt of a signed copy of this authorization.

City of West Lafayette hereby agrees to pay THE SCHNEIDER CORPORATION for the above-stated professional services within thirty (30) days of the date of the invoice, in addition to 1 1/2 % per month (18% per year) on any balance unpaid after thirty (30) days and any cost of collection including, but not limited to, lien costs, court costs or attorney's fees involved in or arising out of the collection of any unpaid or past due balances.

SERVICES TO BE PROVIDED:

Supplemental Services are an amendment or an addition to the Professional Service Agreement entered into by the West Lafayette Board of Works and The Schneider Corporation December 2, 2008. This Authorization For Supplemental Services is subject to all the terms and conditions of the original Agreement between the parties dated 12/2/08. Services are as follows:

	Original	SSA #1	SSA #2	SSA #3	SSA #4	SSA #5	Total
a. Topographic and Route Survey (Phase I)	\$36,127.00	\$17,200.00					\$53,327.00
b. Topographic and Route Survey (Phase II)	TBD			\$26,100.00	\$12,235.00		\$38,335.00
c. Geotechnical and Environmental Evaluation (Phase I)	\$4,515.00						\$4,515.00
d. Geotechnical and Environmental Evaluation (Phase II)	TBD				\$5,445.00	\$2,400.00	\$7,545.00
e. Roadway and Roundabout Engineering (Phase I)	\$144,518.00	\$18,144.00					\$162,662.00



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	Original	SSA #1	SSA #2	SSA #3	SSA #4	SSA #5	Total
Roadway and Roundabout Engineering (Phase II)	TBD				\$180,900.00		\$180,900.00
Stormwater Management (Phase I)	\$21,930.00	\$14,570.00					\$36,500.00
Stormwater Management (Phase II)	TBD				\$17,600.00		\$17,600.00
Landscape Architecture (Phase I)	\$5,330.00		\$5,990.00				\$11,320.00
Landscape Architecture (Phase II)	TBD				\$14,080.00		\$14,080.00
Lighting Design (Phase I)	\$10,000.00						\$10,000.00
Lighting Design (Phase II)	TBD				\$10,605.00		\$10,605.00
Public Involvement and Visualization (Phase I)	\$7,040.00						\$7,040.00
Public Involvement and Visualization (Phase II)	TBD				\$9,120.00		\$9,120.00
Right of Way Engineering (Phase I)	TBD	\$14,900.00					\$14,900.00
Right of Way Engineering (Phase II)	TBD					\$ 18,575.00	\$18,575.00
Right of Way Acquisition (Phase I)	TBD	\$32,558.50					\$32,558.50
Right of Way Acquisition (Phase II)	TBD				\$8,225.00	\$ 71,200.00	\$81,625.00
Bidding Process (Phase I)	\$9,250.00		\$4,500.00				\$13,750.00
Bidding Process (Phase II)	TBD				\$12,540.00		\$12,540.00
Meetings	T&M						
Reimbursables	\$ 2,000.00 (allowance)		\$ 2,000.00 (allowance)		\$2,000.00 (allowance)		\$ 6,000.00 (allowance)
Construction Inspection (Phase I)			\$254,800.00 (T&M)				\$254,800.00 (T&M)
					Subtotal	\$92,175	



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	Project Description and Objectives	Fee
d.	<p>The Geotechnical Engineering Study of the proposed Cumberland Avenue roundabout and culvert will be performed in accordance with generally accepted practices for geotechnical investigations and in general accordance with the Indiana Department of Transportation's (INDOT) latest specifications. <i>However, it must be recognized that the scope of work will not necessarily meet all of the requisite conditions of a typical INDOT investigation.</i></p> <p><u>Proposed Work Plan</u></p> <p>At the request of the client TERRA will perform a soil boring program that will consist of two (2) 30-foot deep borings. The budget presented in this proposal is based on a total of up to 60 lineal feet of drilling. In addition a Dynamic Cone Penetrometer (DCP) test will be performed by hand in the bottom of the ditch to evaluate the shear strength of the subgrade soils. The typical drilling methodology will utilize hollow-stem augers to advance the borings with split-spoon samples obtained in advance of the augers.</p> <p>Split-spoon samples and Standard Penetration Test values [commonly referred to as the blow-count or N-value] will be obtained at 2.5 foot intervals to a depth of 10 feet and 5.0-foot intervals thereafter per ASTM Method D-1586. Groundwater levels will also be measured where available during drilling, upon completion and when possible, several hours after completion of drilling.</p> <p>After the field work is completed, TERRA will perform the appropriate laboratory testing which will include a determination of the natural moisture content of cohesive soil samples recovered and an estimation of the unconfined compressive strength of the cohesive soil using a calibrated hand penetrometer. The budget presented with this proposal allows for Loss-on-ignition (organic content) tests, Atterberg Limit tests, unconfined compressive tests, and sieve gradation analysis. The soil samples will be visually classified and a laboratory boring log will be prepared under the direction of the project Geotechnical engineer utilizing the driller's field log and any laboratory test data.</p> <p>Bedrock material if encountered during drilling will be cored, if needed, utilizing a nominal 2" I.D. core barrel (NX). Shelby tube samples will be obtained in cohesive soil strata of interest, if deemed necessary by the Geotechnical engineer. The rock coring and additional Shelby tube sampling if required will be performed on a Time and Material (T & M) basis and is regarded as a change in scope. However, the Client's Project Manager would be advised before proceeding with the work including the expected additional cost.</p> <p>In compliance with Indiana State law, TERRA will notify utility companies 48 hours prior to performing any on site drilling or excavations. However, locating or providing plans showing the location of private utilities and / or utility easements will be the responsibility of the client and/or property owner. If private utility locates are deemed necessary by the owner than it would be performed as additional services.</p> <p>Based on the results of the fieldwork and laboratory testing, we will prepare a Geotechnical Engineering report.</p>	\$2,400.00



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The report will present all field test boring logs and laboratory test data, including recommendations for foundation design and discussion of any potential construction difficulties due to soil and groundwater conditions. Seismic considerations and a soil profile type will be provided in accordance to the International Building Code (IBC). Per the request of the client the report will include the following soil parameters for foundation and wingwall design:

- Net Allowable Bearing Pressure
- Friction Angle ($\bar{\phi}$)
- Friction Factor ($\tan \bar{\phi}$)
- Ultimate Cohesion (C)
- Ultimate Adhesion (Ca)
- Angle of Internal Friction ($\bar{\phi}$)
- Unit weight

The Geotechnical investigation will be conducted under the direction of TERRA's senior professional engineer. The senior engineer will be the person responsible for evaluating and controlling the overall quality of the work product and will be available for consultation regarding geotechnical and construction related issues as the project continues through the design and construction phases. The TERRA Geotechnical Engineering Report will be organized as shown below.

The proposed boring depths assumes that the site soils will be capable of supporting a structure on a shallow spread footing foundation system bearing at depths of less than 5 feet below the existing grades. If the borings reveal inconsistent and/or marginal soil conditions requiring additional borings or perhaps deepening the borings for deep foundation recommendations, the Client's Project Manager will be consulted with regard to the possibility of modifying the proposed subsurface investigation program. Such a modification may be considered a change in scope of the Proposed Work Plan, thereby requiring additional drilling and engineering services and a possible adjustment to the budget of this Geotechnical Engineering Study.

The subsurface investigation outlined in this proposal assumes that there are no hazardous materials in the soil or in the groundwater underlying the site. This study is not designed to detect or identify such materials. If it becomes apparent during the field investigation that hazardous materials are present, field operations will temporarily cease. The field investigation could be resumed only after the appropriate health and safety issues are addressed and the scope of our investigation modified to address this change in condition.



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p.	<p>Right of Way Engineering Phase II: Based upon a review of the site, the Schneider Corporation has calculated the following fees for RW engineering:</p> <ol style="list-style-type: none">1. Prepare descriptions and exhibits for 19 parcels including permanent and temporary right of way. Each parcel description and exhibit will be at a unit cost of \$700 per parcel. This cost is estimated at \$13,300.2. Changes to descriptions and exhibits which may result from the negotiation process will be at a unit cost of \$350 per parcel. An estimate of 4 parcels at \$350 each is used to establish a not to exceed cost of \$1,400. Should additional changes be requested by the client each additional parcel would be at a unit cost of \$350.3. Staking of the right of way will be a Lump Sum cost of \$3,875. This will be for one staking of temporary and permanent right of way as described in the descriptions and exhibits prepared in Item 1. above. Should the client request the re-staking of any right of way, additional costs would be incurred by the client and a mutually agreed upon fee would be required. <p>Based upon this scope, the quoted cost of services would be approximately \$18,575. If the scope were to deviate and more parcels were required, a revised fee would be necessary.</p>		\$18,575.00
r.	<p>Right-of-Way Acquisition: The task will be performed by RWS South and will provide services to apprise and to begin purchasing R/W. Work will require no more than 180 days to complete and will start no later than 15 days after notice to proceed. All work with be performed per current State and Federal regulations. Assumptions for this fee and schedule are based on appraising and purchasing 19 parcels for the Cumberland Avenue Reconstruction Project. Included in the appraisal assumptions are 12 Restricted Use Report Types, 1 Value Finding Form, 5 Short Forms, and 1 Long Form. Five parcels are assumed to require a second appraisal. 19 properties are also assumed for buying. If however the right of way required for this project is ultimately less than assumed, and lesser appraisal procedures and/or report types are warranted, the fees will be reduced accordingly. If more parcels are added beyond the 19 currently defined, this addendum will be revisited at that time. See appendix "A" for breakdown of costs.</p>		\$71,200.00

ITEMIZED PROPOSAL CUMBERLAND AVENUE, PHASE II (YEAGER ROAD TO SALISBURY STREET) TIPPECANOE COUNTY							
Ref #	Owner	Address	Report Type	Appraisal	Second Appraisal*	Buying	Total
17	Verizon North, Inc.	1100 Cumberland Avenue	Restricted Use	\$800.00	\$0.00	\$1,500.00	\$2,300.00
47	Joe A. Livesay, Jr.	1070 Cumberland Avenue	Value Finding	\$1,900.00	\$0.00	\$1,500.00	\$3,400.00
45a	Friendship House North Two, Inc.	1010 Cumberland Avenue	Short Form	\$2,600.00	\$2,600.00	\$1,500.00	\$6,700.00
45b	Friendship House, Inc.	1010 Cumberland Avenue	Short Form	\$2,700.00	\$2,700.00	\$1,500.00	\$6,900.00
44	West Lafayette Junior-Senior HS Bldg. Corp.	NWC Cumberland & Salisbury	Short Form	\$2,400.00	\$2,400.00	\$1,500.00	\$6,300.00
13	Harold & Donald Gretencord, Trustees	1189 Cumberland Avenue	Restricted Use	\$800.00	\$0.00	\$1,500.00	\$2,300.00
14	Paul Gretencord Trust	1181 Cumberland Avenue	Restricted Use	\$800.00	\$0.00	\$1,500.00	\$2,300.00
15	Gregory G. & Kerri R. Saffanski	1173 Cumberland Avenue	Restricted Use	\$800.00	\$0.00	\$1,500.00	\$2,300.00
16	Patricia C. Sturm	1165 Cumberland Avenue	Restricted Use	\$800.00	\$0.00	\$1,500.00	\$2,300.00
23	Stephen W. & Lynn D. Pabs	1157 Cumberland Avenue	Restricted Use	\$800.00	\$0.00	\$1,500.00	\$2,300.00
24	Gordon D. & Carole R. Wolever	1149 Cumberland Avenue	Restricted Use	\$800.00	\$0.00	\$1,500.00	\$2,300.00
25	Everett Shoebarger	1141 Cumberland Avenue	Restricted Use	\$800.00	\$0.00	\$1,500.00	\$2,300.00
26	Craig A., Candice A., & Aaron F. Henkler	1133 Cumberland Avenue	Restricted Use	\$800.00	\$0.00	\$1,500.00	\$2,300.00
27	Judson Burgett	2925 Browning Street	Restricted Use	\$800.00	\$0.00	\$1,500.00	\$2,300.00
28	Justin Jones	2922 Browning Street	Restricted Use	\$800.00	\$0.00	\$1,500.00	\$2,300.00
29	Jason & Margot Jones	1109 Cumberland Avenue	Restricted Use	\$800.00	\$0.00	\$1,500.00	\$2,300.00
30	Fern Musson	2925 Manchester Street	Long Form	\$3,200.00	\$0.00	\$1,500.00	\$4,700.00
34	Trilogy Real Estate Indiana II, LLC	1051 Cumberland Avenue	Short Form	\$2,900.00	\$2,900.00	\$1,500.00	\$7,300.00
35	North Central Health Services, Inc.	2995 Salisbury Street	Short Form	\$3,100.00	\$3,100.00	\$1,500.00	\$7,700.00
TOTAL							\$70,600.00

* Required if total compensation exceeds \$25,000

Administrative Costs \$600.00
Grand Total \$71,200.00



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Accepted by the City of West Lafayette Board of Public Works and Safety

By:

John R. Dennis, Mayor	Date
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By:

Sana G. Booker, Member	Date
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By:

Bradley W. Marley, Member	Date
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By:

Jonathan C. Speaker, Member	Date
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By:

Elizabeth M. Stull, Member	Date
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Attest:

Judith C. Rhodes, Clerk-Treasurer	Date
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